

R Adams Cowley Shock Trauma Center, Department of Orthopaedics
University of Maryland School of Medicine
Orthopaedic Trauma Association 2022 Annual Meeting

Wednesday, October 12

SYMPOSIUM PRESENTATIONS

2:00 PM: **Collagen X Biomarker Correlates to Canonical Bone Turnover Markers During Fracture Healing and Distinguishes Sex-Related Differences in Soft Callus Formation**—Zachary M. Working, MD; K.M. O'Hara; A.L. Nelson; Ryan F. Coghlan; Lucas S. Marchand; S. Bzovskys; Sheila Sprague, PhD; Nathan N. O'Hara, PhD, MHA; Gerard Slobogean, MD, MPH; Chelsea S. Bahney, PhD

5:00–8:00 PM: **OTA Member Fireside - Senior Surgeon Leadership Forum: An Evening with Your Colleagues Transitions from Primary Trauma Surgeon to other Leadership Roles**
Heather Vallier, MD; David Teague, MD; Robert A. Probe, MD; M. Bradford Henley, MD, FACS; Andrew N. Pollak, MD; Thomas Russell, MD

Thursday, October 13

SYMPOSIUM PRESENTATION

9:30–9:45 AM: **Infection Tibial Nonunion.** Robert V. O'Toole, MD

PAPER PRESENTATIONS

9:46 AM Paper 80—**Nail-Plate Fixation for Distal Femur Fractures: A Multicenter Case Series**—Brendan Shi, MD; Nathan N. O'Hara, PhD; Ben Kelley, MD; Alexander Upfill-Brown, MD, MSc; Sai Devana, MD; Dane Brodke, MD, MPH; Cynthia Burke, BS, BSN; Jayesh Gupta, BS; Natasha McKibben, BS; Robert V. O'Toole, MD; John Morellato, MBBS; Murphy McGriff Walters, MD; Colby Barber, MD; Paul William Perdue, MD; Graham Dekeyser, MD; Lillia Steffenson, MD; Lucas S. Marchand, MD; Marshall J. Fairres, MD; Stephen Shymon, MD; Loren O. Black, MD, MBA; Zachary M. Working, MD; Trevor Gulbrandsen, MD; Matthew Hogue, MD; Omar H. Atassi, MD; Thomas W. Mitchell, MD; Erika Roddy, MD; Ashraf N. El Naga, MD; Christopher Lee, MD; William H. Gillon, MD

9:52 AM Paper 81—**Risk Factors for Reoperation to Promote Union in 1128 Distal Femur Fractures**—Dane Brodke, MD, MPH; Sai Devana, MD; Adolfo Hernandez, MS; Nathan N. O'Hara, PhD; Cynthia Burke, BS, BSN; Jayesh Gupta, BS; Natasha McKibben, BS; Robert V. O'Toole, MD; John Morellato, MBBS; Murphy McGriff Walters, MD; Colby Barber, MD; Paul W. Perdue, MD; Graham Dekeyser, MD; Lillia Steffenson, MD; Lucas S. Marchand, MD; Stephen Shymon, MD; Marshall J. Fairres, MD; Loren O. Black, MD, MBA; Zachary M. Working, MD; Matthew Hogue, MD; Trevor Gulbrandsen, MD; Omar H. Atassi, MD; Thomas W. Mitchell, MD; Erika Roddy, MD; Ashraf N. El Naga, MD; William H. Gillon, MD; Christopher Lee, MD

9:58 AM Paper 82—**Malreduction Is the Most Important Technical Factor Contributing to Nonunion in Supracondylar Distal Femur Fractures Treated With Lateral Locked Plating**—David J. Stockton, MD, MSc, FRCSC; Nathan N. O'Hara, PhD; Dane Brodke, MD, MPH; Natasha McKibben, BS; Kathleen M. Healey, BA; Abraham M. Goch, MD; Haley Demyanovich, MS; Lucas S. Marchand, MD; Stephen Shymon, MD; Paul W. Perdue, MD; Omar H. Atassi, MD; Zachary M. Working, MD; Ashraf N. El Naga, MD; Matthew Hogue, MD; John Morellato, MBBS; Eric Hempen, MD; Gerard Slobogean, MD, MPH; Christopher Lee, MD; Robert V. O'Toole, MD

Thursday, October 13

PAPER PRESENTATIONS

2:15 PM Paper 83—**Policy Changing Paper – PREVENT CLOT** (Aspirin Versus Low-Molecular-Weight Heparin for Thromboprophylaxis): A Randomized Clinical Trial of Over 12,000 Orthopaedic Trauma Patients—METRC; Robert V. O'Toole, MD

2:27 PM Paper 84—**Aqueous-PREP: A Pragmatic Randomized Trial Evaluating Pre-Operative Aqueous Antiseptic Skin Solutions in Open Fractures**—PREP-IT Investigators; Gerard Slobogean, MD, MPH

2:33 PM Paper 85—**Do NSAIDs Increase the Risk of Non-Union? Results of the PAIN Study, A Three Arm, Multicenter, Double Blind, Randomized Control Trial**—METRC; Renan Castillo, MD

2:51 PM Paper 87—**A Multicentre, Randomized Trial of Far Cortical Locking Versus Standard Constructs for Acute, Displaced Fractures of the Distal Femur Treated with Locked Plate Fixation**—Kelly A. Lefavre, MD, FRCSC, Gerard Slobogean, MD, MPH; Peter J. O'Brien, MD, FRCSC; Canadian Orthopaedic Trauma Society

Thursday, October 13

CONCURRENT BREAKOUT SESSIONS

3:45–4:45 PM: **Current Strategies and Techniques for Operative Fixation of Complex Ankle Fractures and Fractures of the Tibial Plafond.** Mark Gage, MD; Jason W. Nascone, MD; Marcus F. Sciadini, MD; Brandon Yuan, MD; Derek J. Donegan, MD, MBA

3:45–4:45 PM: **Geriatric Acetabular Fractures - Fix, or Fix and Replace - What Do We Know?** Marissa Bonyun, MD; Milton Routt, MD; Frank A. Liporace, MD; Aaron Johnson, MD

Friday, October 14

CONCURRENT BREAKOUT SESSIONS

11:35 AM–12:35 PM: **Soft Tissues Reconstruction: What the Orthopaedic Trauma Surgeon Needs to Know.** Robert V. O'Toole, MD; Lily Mundy, MD; Jason Souza, MD; Gordon Potter, MD

11:35 AM–12:35 PM: **Treatment of Supracondylar Femur Fractures: Plating, Nailing and Nonunions.** Frank A. Liporace, MD; Michael Maceroli, MD; Richard S. Yoon, MD; John P. Ketz, MD; Marcus F. Sciadini, MD



Friday, October 14

PAPER PRESENTATIONS

12:10 PM Paper 103—**Do Tibial Plateau Fractures at Low Risk of Infection Also Benefit From Topical Vancomycin Powder?**
Nicolas H. Zingas, BS; Zachary D. Hannan, BS; Kathleen M. Healey, BA; Natasha McKibben, BS; Cynthia Burke, BS, BSN; Phillip McKegg, MS; Qasim Ghulam, DO; Nathan N. O'Hara, PhD; Manjari Joshi, MBBS; Andrew G. Dubina, MD; Robert V. O'Toole, MD

2:05 PM Paper 106—**Does Fracture Pattern Really Predict Clinically Important Displacement of LC1 Sacral Fractures?**
Michael Livesey, MD; Harold I. Salmons, MD; Bennet Butler, MD; Gerard Slobogean, MD, MPH; Robert V. O'Toole, MD

2:11 PM Paper 107—**Is Iliosacral Screw Removal Useless? A Causal Analysis of Prospective Observational Data**—Natasha McKibben, BS; Nicolas H. Zingas, BS; Caroline A. Benzel, BS; David J. Stockton, MD, MSc, FRCSC; Haley Demyanovich, MS; Gerard Slobogean, MD, MPH; Marcus F. Sciadini, MD; Robert V. O'Toole, MD; Kathleen M. Healey, BA; Nathan N. O'Hara, PhD

2:40 PM Paper 111—**A New Computed Tomography-Based Measure of Posterior Wall Acetabulum Fractures Decreases the Need for Examination Under Anesthesia**—Haley Demyanovich, MS; Todd Jaeblo, DO; Joseph Kufera, MA

2:51 PM Paper 112—**The Impact of Heterotopic Ossification Prophylaxis After Surgical Fixation of Acetabular Fractures: National Treatment Patterns and Related Outcomes**—Adam Boissonneault, MD; Robert V. O'Toole, MD; Gerard Slobogean, MD, MPH; Sheila Sprague, PhD; David A. Pogorzelski, MSc; Ida Gitajn, MD; Nathan N. O'Hara, PhD; Lucas S. Marchand, MD; Mark Gage, MD; Thomas F. Higgins, MD; Roman M. Natoli, MD; Sarah Pierrie, MD; Ishani Sharma, BA, BS

CONCURRENT BREAKOUT SESSION

4:50–5:50 PM: **Combined Pelvic Ring and Acetabulum Fractures: What I've Learned and What I Wish I Would Have Known Back Then.** Marcus F. Sciadini, MD; Michael Maceroli, MD; Jason W. Nascone, MD; Conor P. Kleweno, MD; Brent Wise, MD

Saturday, October 15

PELVIS AND ACETABULUM COURSE

8:50–9:00 AM: **Which Ones Should I Not Stress?** Marcus F. Sciadini, MD

CONCURRENT BREAKOUT SESSION

9:45–10:45 AM: **From Fixation to Revision in Periprosthetic and Interprosthetic Hip & Knee Fractures: When, How and Getting It Right.** Richard Yoon, MD; Frank Liporace, MD; Derek Donegan, MD, MBA; Mark Gage, MD; Michael Maceroli, MD

Saturday, October 15

PAPER PRESENTATIONS

11:11 AM Paper 134—**What Is the Probability That Intrawound Vancomycin Powder Reduces Infections in Patients With High-Risk Tibial Plateau or Pilon Fractures? A Bayesian Analysis of the VANCO Trial**—Nathan N. O'Hara, PhD; Renan Castillo, MD; Anthony R. Carlini, MS; Manjari Joshi, MBBS; Clinton K. Murray, MD; Lauren Allen, MA; Yanjie Huang, Joshua Gary, MD; Michael J. Bosse, MD; William T. Obremskey, MD, MPH; Todd McKinley, MD, PhD; Robert V. O'Toole, MD; METRC Investigators

11:59 AM Paper 140—**The LIMB-Q: A Novel Patient-Reported Outcomes Instrument Specific to Lower-Extremity Trauma Patients**—Lily Mundy, MD; Anne Klaasen; Andrea Pusic; Tim De Jong, DPHIL; Nicole Lindenblatt, MD; Nina Vestergaard Simonsen, MD; Lotte Poulsen, MD, PhD; Scott Hollenbeck, MD; Mark Gage, MD; Natasha McKibben, BS; Raymond A. Pency, MD; Ariana Paniagua, BA; Nicolas H. Zingas, BS

POSTER PRESENTATIONS

Poster 98: Neurologic Injury Predicts Failure of Manipulation Under Anesthesia for Posttraumatic Knee Stiffness—Michael Robertson MD; Caroline A. Benzel, BS; Nicolas H. Zingas, BS; Nathan N. O'Hara, PhD, MHA; Robert O'Toole, MD; Eric Hempen, MD

Poster 110: Long-Term Pain and Function in Patients With Unstable Pelvic Fractures Treated With Posterior Screw Fixation: A Prospective Case Series—Nathan N O'Hara MHA; Danielle Sim BA; Darby Moore BS; Peter Campbell MHS; Vincent Allen BS; Marco Nascone; Sania Hasan; David J. Stockton, MD, MASC; Haley Demyanovich, MS; Marcus F. Sciadini, MD; Robert V. O'Toole, MD; Gerard P. Slobogean, MD, MPH

Poster 137: Is It Possible to Predict Which Patients Are at Higher Risk of Infection? A Secondary Analysis of the VANCO and OXYGEN Trials—Archie Overmann MD; Anthony R. Carlini, MS; Robert V. O'Toole, MD; Renan C. Castillo, PhD; Nathan N. O'Hara, PhD, MHA; on behalf of The METRC Investigators

Poster 141: Tibial Malalignment Is an Independent Predictor of Nonunion Following Intramedullary Nailing of Tibial Shaft Fractures—Abraham Goch MD; Kathleen Healey, BS; Nicolas H. Zingas, BS; Natasha McKibben, BS; Caroline A. Benzel, BS; David Stockton, MD; Nathan N. O'Hara, PhD, MHA; Gerard Slobogean, MD, MDH; Jason Nascone, MD; Robert V. O'Toole, MD